

Claims

1. Prepolymer composition particularly for the production of insulating foams to be delivered from pressure packs, with a prepolymer component comprising a prepolymer with silane groups for cross-linking the prepolymer with a second component and containing customary additives, and a propellant gas component which is liquid under the pressure prevailing in the pressure pack and which is at least partially dissolved in the prepolymer component, c h a r a c t e r i z e d i n t h a t ,
the propellant gas component has a $\log P_{OW}$ value of ≥ 1.70 where P_{OW} denotes the distribution coefficient of the propellant gas component in octanol/water.

2. Prepolymer composition according to claim 1, characterized in that the prepolymer comprises of methyldimethoxysilane groups.

3. Prepolymer component according to claim 2, characterized in that the $\log P_{OW}$ value of the propellant gas component is ≥ 1.90 .

4. Prepolymer composition according to claim 1, characterized in that the prepolymer comprises of trimethoxysilane groups.

5. Prepolymer component according to claim 4, characterized in that the $\log P_{OW}$ value of the propellant gas component is ≥ 2.35 .

6. Prepolymer composition according to at least one of the above claims, characterized in that the propellant gas component has a boiling point of ≤ 40 C.

5 7. Prepolymer composition according to at least one of the above claims, characterized in that the propellant gas component has a boiling point of ≤ 20 C.

10 8. Prepolymer composition according to at least one of the above claims, characterized in that the propellant gas component contains i-butane, n-butane, propane, R227ea, R365mffc, R245fa, R134a, R152a, dimethyl ether or blends of these constituents with each other or with other propellant gases.

9. Prepolymer composition according to at least one of the above claims, characterized in that the propellant gas component represents 20 through 40 % v/v of the prepolymer composition.

15 10. Prepolymer composition according to at least one of the above claims, characterized in that at least 2/3 of the propellant gas component consist of non-polar propellants.

11. Prepolymer composition according to at least one of the above claims, characterized in that at least 5/6 of the propellant gas component consist of non-polar propellants.

20 12. Use of a propellant gas mixture having a $\log P_{OW}$ value of ≥ 1.70 for the production of insulating foams from prepolymers containing silane groups in pressure packs.

13. Use according to claim 12, characterized in that the prepolymer is a silane-terminated prepolymer.

25 14. Use according to claim 13, characterized in that the prepolymer comprises of trimethoxysilane groups.

15. Use according to claim 14, characterized in that the propellant gas component has a log P_{OW} value of ≥ 2.35 .

16. Use according to at least one of the above claims 12 thru 15, characterized in that the propellant gas component contains i-butane, n-butane, propane, R227ea, R365mffc, R245fa, R134a, R152a, dimethyl ether or blends of these constituents with each other or with other propellant gases.